



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
801056
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (23 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0122317	GFL0111762	GFL0107119
Sample Date		Client Info		03 Jun 2024	01 Feb 2024	29 Jan 2024
Machine Age	hrs	Client Info		13177	134422	134422
Oil Age	hrs	Client Info		0	0	600
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Not Chngd	Changed
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	24	7	28
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	3	3	9
Lead	ppm	ASTM D5185(m)	>30	0	<1	2
Copper	ppm	ASTM D5185(m)	>150	12	11	▲ 61
Tin	ppm	ASTM D5185(m)	>5	<1	<1	▲ 5
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

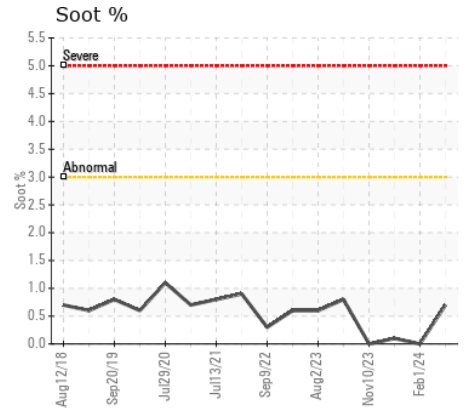
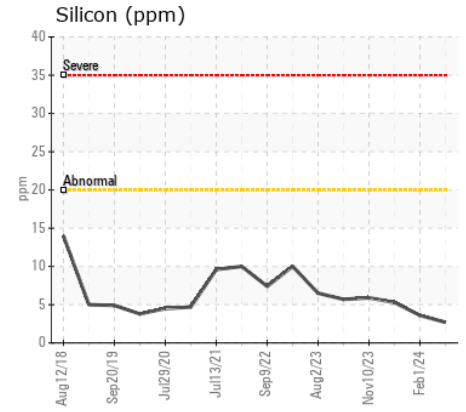
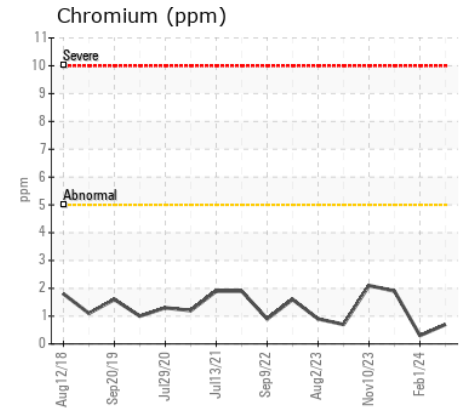
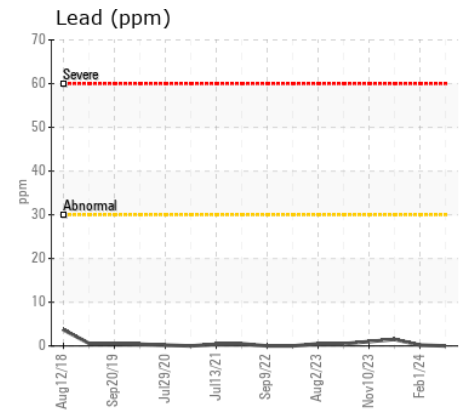
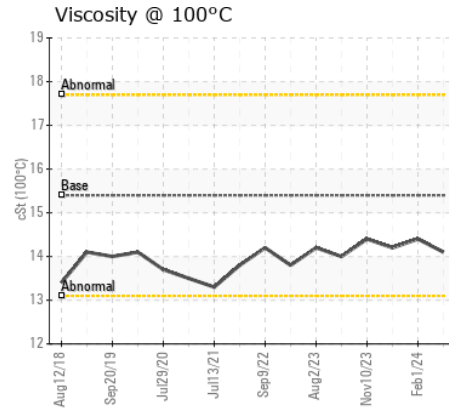
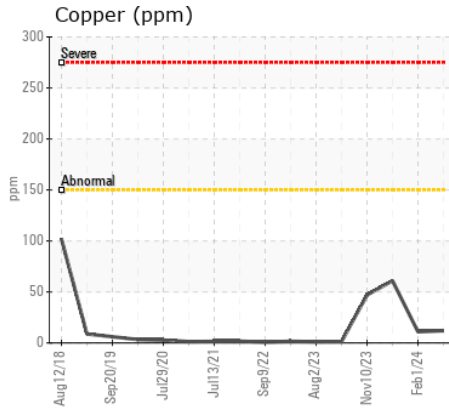
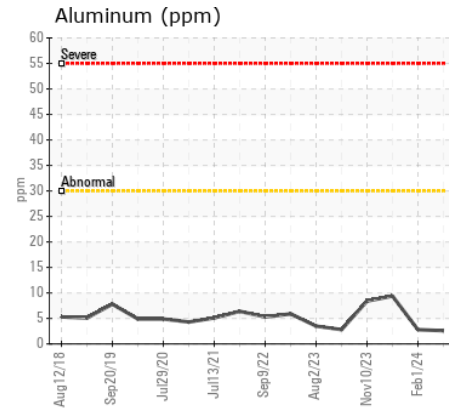
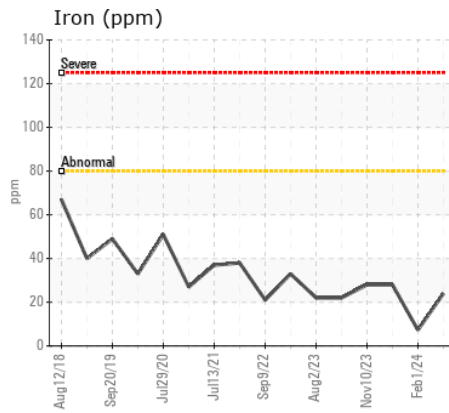
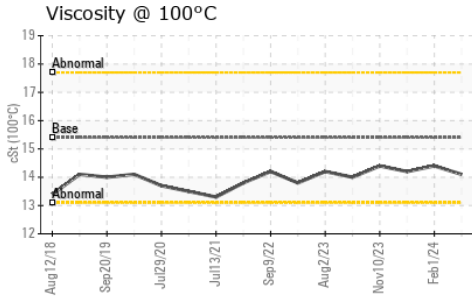
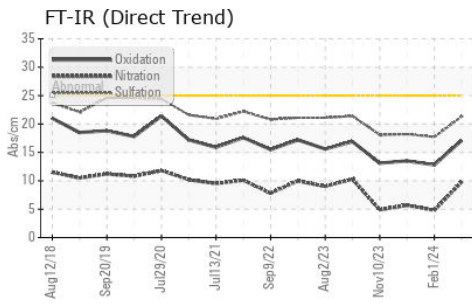
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	3	4	5
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.7	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.8	4.8	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	17.7	18.2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		8	2	3
Boron	ppm	ASTM D5185(m)	0	6	13	21
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	62	57	58
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	968	925	889
Calcium	ppm	ASTM D5185(m)	1070	1074	1009	1059
Phosphorus	ppm	ASTM D5185(m)	1150	905	995	976
Zinc	ppm	ASTM D5185(m)	1270	1185	1123	1141
Sulfur	ppm	ASTM D5185(m)	2060	2217	2739	2660
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.1	12.8	13.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.4	14.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0122317
Lab Number : 02640095
Unique Number : 5789257
Test Package : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.